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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/748,504	12/30/2003	Karl Kennedy	04362 (3883.00035)	7257	
35374	7590 09/19/2005		EXAM	EXAMINER	
LEAR CORPORATION, BLISS MCGLYNN, P.C.			CROSLAND, DONNIE L		
2075 WEST SUITE 600	BIG BEAVER ROAD	•	ART UNIT	PAPER NUMBER	
TROY, MI	48084		2636		

DATE MAILED: 09/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
•	10/748,504	KENNEDY ET AL.	
Office Action Summary	Examiner	Art Unit	
	DONNIE L. CROSLAND	2636	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fi e, cause the application to become ABANDO	ON. The timely filed Tom the mailing date of this communications The communication of the	
Status			
1)☐ Responsive to communication(s) filed on 2a)☐ This action is FINAL. 2b)☑ This 3)☐ Since this application is in condition for allowated closed in accordance with the practice under a second condition.	s action is non-final. ance except for formal matters,		is
	Ex parte Quayle, 1955 C.D. 11,	455 O.G. 215.	
Disposition of Claims			
4)	awn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examina 10)☒ The drawing(s) filed on 30 December 2003 is/s Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the E	are: a) \boxtimes accepted or b) \square objection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121	(d).
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Bureat* * See the attached detailed Office action for a list.	nts have been received. Its have been received in Application of the property documents have been received (PCT Rule 17.2(a)).	cation No bived in this National Stage	
Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/21/04: 1/24/05: 2-7-05.	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:		

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/748,504

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: On page 13 of the specification, there is two blank serial numbers. Applicants are required to fill in the blanks.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 3, "the output" has no antecedent basis.

In claim 5, lines 3 and 5, "the number of times" has no antecedent basis; line 7, "the set of training samples" has no antecedent basis; line 9, "the output units" has no antecedent basis.

In claim 12, line 3, "the analog output" has no antecedent basis; line 4, "the analog sensor array output" has no antecedent basis; line 5, and "the vector expression" has no antecedent basis.

Allowable Subject Matter

Claims 1-12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: Claim 1 recites the combination and includes applying the sensor array output

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as a vector representation to a neural net that was trained using a learning vector quantization algorithm.

Claim 5 recites the method combination and includes processing the set of training samples through a neural network the determined number of times using the first learning vector quantization algorithm; adjusting one of the output units of the neutral net each time one of the training samples is processed using the first learning vector quantization algorithm; processing the set of training samples through the neural network the determined number of times using the second learning vector quantization algorithm and further recites storing the adjusted output units as the final trained values for the neural net.

Claim 12 recites the method steps of converting the analog sensor array output into a digital vector expression and applying the vector expression to a trained neural net having a predetermined learning vector quantization algorithm, recognizing, determining, and continuously reinitiating the method steps to redetermine the classification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONNIE L. CROSLAND whose telephone number is 571-272-2980. The examiner can normally be reached on Mon-Fri, 9:30a-6:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFERY HOFSASS can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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Dlc 9-15-05